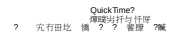
AMOD GPS Photo Tracker AGL3080

We Add More Fun to Photo Sharing!



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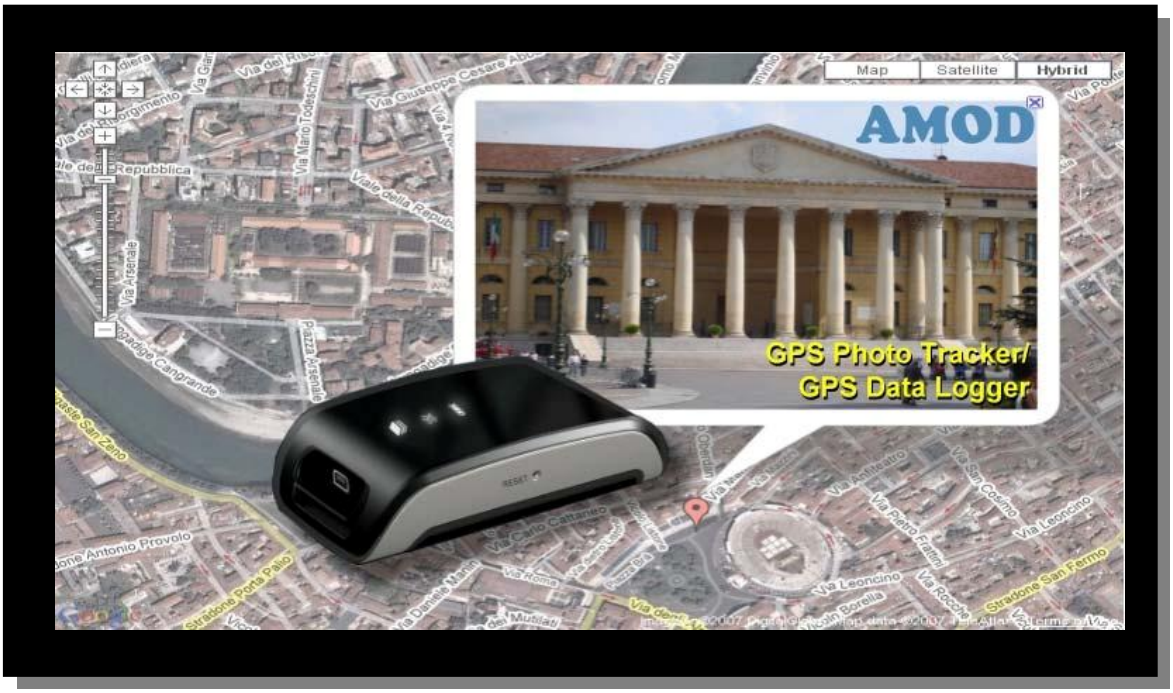
Overview



AGL 3080 photo tracker is a GPS-based data logger designed to provide location information for digital photos (in EXIF 2.0 or later format) from all DSCs and camera phones. It can help making photo-taking more fun – show not just the great picture but also where it is taken! It is extremely easy to use – just take it along and turn it on with your photo-taking trip. When uploading the pictures to the PC, the accompanying software will do the tagging and saving of GPS location information. After that all you need to do is to click at the GPS-tagged picture and it will show its location on Google Map or other internet maps – let AGL 3080 tag your picture so you can enjoy more!

Unique Features

- GPS – based on SiRF Star III chipset
- Log GPS output in NMEA0183 format at one record per second rate – full rate logging for best time resolution and flexible to use
- Standard USB 2.0 interface / Double up as an USB Flash Disk
- Works with Windows, Mac, or Linux -based machines
- GPS logs can be accessed directly by application software as files, no more awkward COM port set-up procedures
- Long operating time – over 15 hours with three standard AAA batteries
- Large log capacity – store over 256,000 data records, equivalent to 70 hours of continuously logged GPS data
- User-friendly PC-based software is provided for photo tagging (EXIF 2.0 and later format) and sharing
- Tagged photos can be viewed on Google Map and other internet maps
- Works with many on-line tools such as **JetPhoto**, **GPSVisualizer**, etc.

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In Case You Don't Know Yet - What is GPS?

GPS is a 24-satellite network of Navstar navigational satellites that transmit signals to users, giving them an accurate position in three dimensions along with a time stamp. While it was originally developed in the 1970s as a navigational aid for submarine-based Trident nuclear missiles, its commercial use has expanded well beyond vehicle and hiker navigation to include network timing control for accurate delivery of packet communications.

AGL3080 Operation

Power ON/OFF device

Power On

Hold the POWER ON/OFF button for one (1) second until all three LED's blink simultaneously once. Then the Green LED (GPS Status) will be on. This indicates the device has been turned on and starts to search GPS satellites.

Power ON/OFF button

When sufficient numbers of GPS satellites are found and the position can be fixed, the Green LED will begin to blink, indicating good GPS signal reception and GPS data is being logged

Now you can concentrate on and enjoy taking photos!

Power Off

To turn the power off, just hold the POWER ON/OFF button again for about three (3) seconds. All three LED's will be lit once and then off, and the device is now turned off.

Status LED's

There are three status LED's on AGL3080 – Red (Storage Full), Green (GPS Status), and Amber (Battery

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Power).

Status LED

*The Green LED is the **GPS Status** LED.* It is either constantly on or blinking. Blinking indicates good reception of satellite signal and GPS position data is being logged. Constant on indicates satellite signal reception is poor and position can not be fixed and logged.

To get a good reception of GPS signal, adjust the orientation of the AGL3080 device to ensure it is facing open sky. Normally, after adjustment, the position can be fixed very quickly and the GPS Status LED (Green) will again blink.

*The Red LED is the **Storage Full** LED.* When the storage space runs out, the Red LED will be on and no more GPS data be logged.

If this happens, turn the device off, download the logged data to the computer and clean up the storage disc. The storage disc can be cleaned either by deleting file(s) from the computer or by performing a CLEAN DISC operation when turning the AGL3080 device on. Please see instructions below about CLEAN DISC.

*The Amber LED is the **Battery Power** LED.* The Amber LED will blink when the battery power level becomes low (< 20% of full power). It is just a warning sign about battery power level is getting low. The device still functions properly.

But when the battery power level is too low for the device to function normally, the Amber LED will change from blinking to constant on, and both the GPS and data logging functions will be turned off. When this happens, please turn the device off and replace battery immediately.

Special Functions

MARK button

Position Mark A position can be marked using AGL3080 if the "**MARK**" button is firmly pressed once. When doing so, the ***Storage Full*** LED will be on and the device will insert a MARK tag to the logged GPS position data. If you press the Mark button right after taking a picture, the accompanying GPS Photo Tracker software will use this "marked position data" to tag the picture.

GPS Reset During normal operation, you can press the "**MARK**" button for about three to four (3 ~ 4) seconds to reset the GPS – the AGL3080 will re-start the GPS satellites searching without using satellite information already on-hand and stored internally. Because the set of GPS satellites data (the orbital and

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status information) will be valid only for around two hours, they need to be updated regularly. These information are location-dependent – at two far enough locations the GPS receiver will see different set of GPS satellites, hence different satellites data. GPS receivers assume the on-hand internal satellites data is valid and will use it first in searching and tracking satellites. If wrong satellite data is used, the searching will take a long time or even fail. The GPS Reset function thus can help speed up the position fix operation if the device was used previously at place(s) far away from the current location or over some time (> two hours) ago.

Set Up Mode

AGL3080 has 6 logging modes for user to choose from if it's desired. User can configure the tracking modes in "***Set Up Mode"*.**

Entering "Set Up Mode"

At device power off status, hold both "POWER ON/OFF" button and "MARK" button simultaneously for 5 seconds. When you hold both buttons, the three LED will flash 5 times and stop at light on mode. You can release the buttons when three LED lights are all on.

Setup mode function description

Logging mode setup AGL3080 has 6 logging modes. You can change logging mode by pressing "MARK" button. For each press of the "MARK", it enters to following logging mode. Pressing "MARK" at "Mode 6" will bring you back to "Mode 1".

Logging Modes and corresponding LED status are described as below:

	LED Status	Output Format	Minimum Records	Minimum Operation Hours
Mode 1	Memory Full Led ON	GGA/GSA/RMC/VTG->1 sec GSV -> 5 sec	260,000	72 hours
Mode 2	Memory Full Led Flash	Only RMC->1 sec	1,040,000	288 hours
Mode 3	GPS Led ON	GGA/GSA/RMC/VTG->5 sec	260,000	360 hours
Mode 4	GPS Led Flash	Only RMC->5 sec	1,040,000	1440 hours
Mode 5	Battery Low Led ON	GGA/GSA/RMC/VTG->10 sec	260,000	720 hours
Mode 6	Battery Low Led Flash	Only RMC->10 sec	1,040,000	2880 hours

Clear Disk Function Hold "MARK" button for 5 seconds to all three LEDs start blink sequentially, then release the button to clear up the storage space.

Note:

(a) The device would power off during setup mode if you do not press any button after 1 minute.

(b) If system power is low, the battery led will be on and then device will be powered off. At this time, user

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have to replace new batteries.

(c) User's each change of the logging mode at the setup mode is recorded by the system. If thesystem is cut off power unexpectedly, the last setting value before power off is recorded. Therefore, the system power on at GPS mode, it will run at the last setting value.

Install/Replace Battery

The device requires three standard AAA size batteries to operate. NiH rechargeable batteries or alkaline batteries are recommended. [*Please note that batteries are not part of the accessories included in the package.*]

To install or replace battery, please:

1. Flip the device so that the bottom side is up.
2. Find the latch of the battery compartment cover and slide it sideways to release the cover.
3. Pull the cover out to open the battery compartment. The batteries can be easily inserted, but please ensure the correct polarity.

WARNING: Wrong polarity will cause permanent damage to the device.

A Note on Battery and AGL3080's Operating Time

Batteries have wide range of capacity (in mAh) and voltage level (even though they are specified as 1.5 V). These factors will cause variation of AGL3080's operating time. Please check to ensure the quality of batteries is meeting its specifications. We recommend using 1.5 V and 900 mAh AAA batteries. NiH type battery is recommended when using AGL3080 in a low temperature environment.

Using the Accompanying AMOD Photo Tracker Software to Tag Your Photos

You can install the AMOD Photo Tracker Software by clicking the Setup button (the setup file) in the included CD-ROM. You can specify which directory to install the Photo Tracker Software. An icon (short-cut) will also be created at the Desktop for easy access to the software tool.

[First, you need to download and store the pictures from your DSC to your PC. Usually the DSC has accompanying photo management tools for photo downloading and storage.]

Installation

Plug the AGL3080 to your PC's USB port

Run the GPS Photo Tracker Software, and the following will be up:

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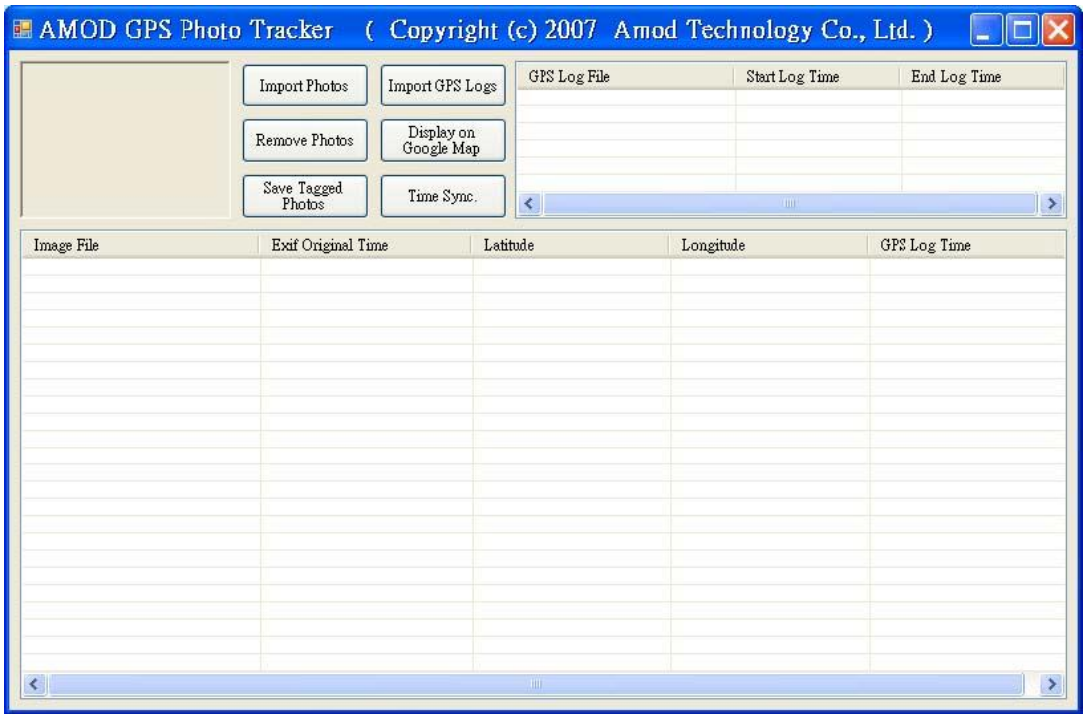

Import the GPS log from AGL3080 to PC

Then you can import the GPS log by selecting the AMOD Photo Tracker Device. If you have previously imported the GPS log files, you can go to the directory to import them. Multiple log files can be selected simultaneously for import.

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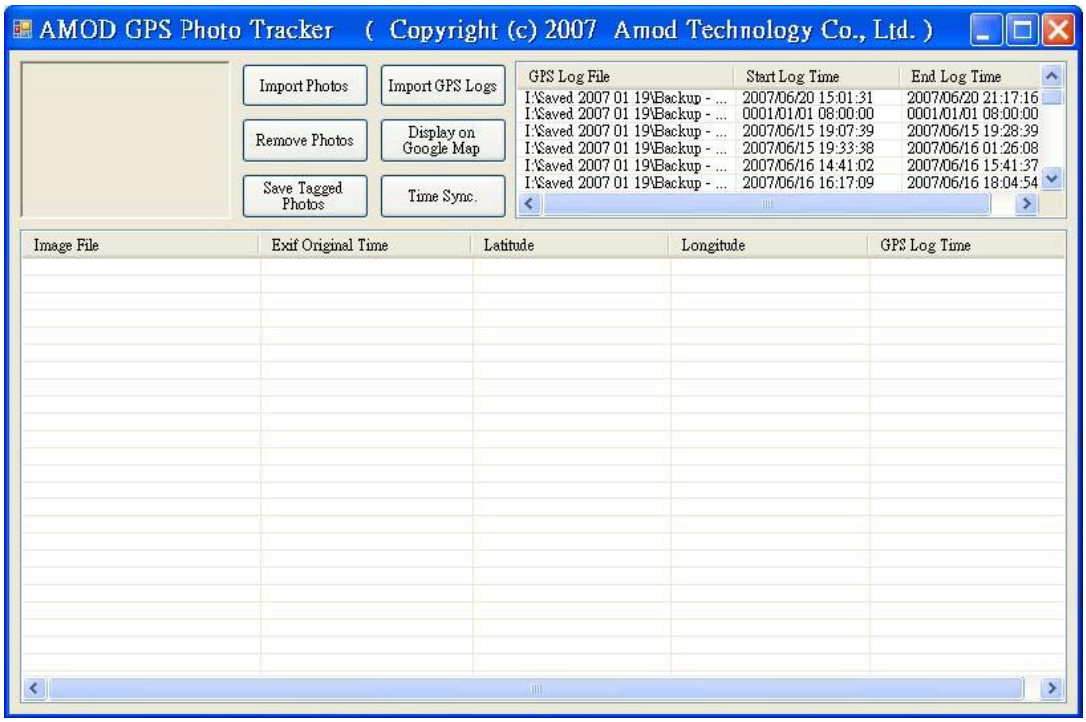
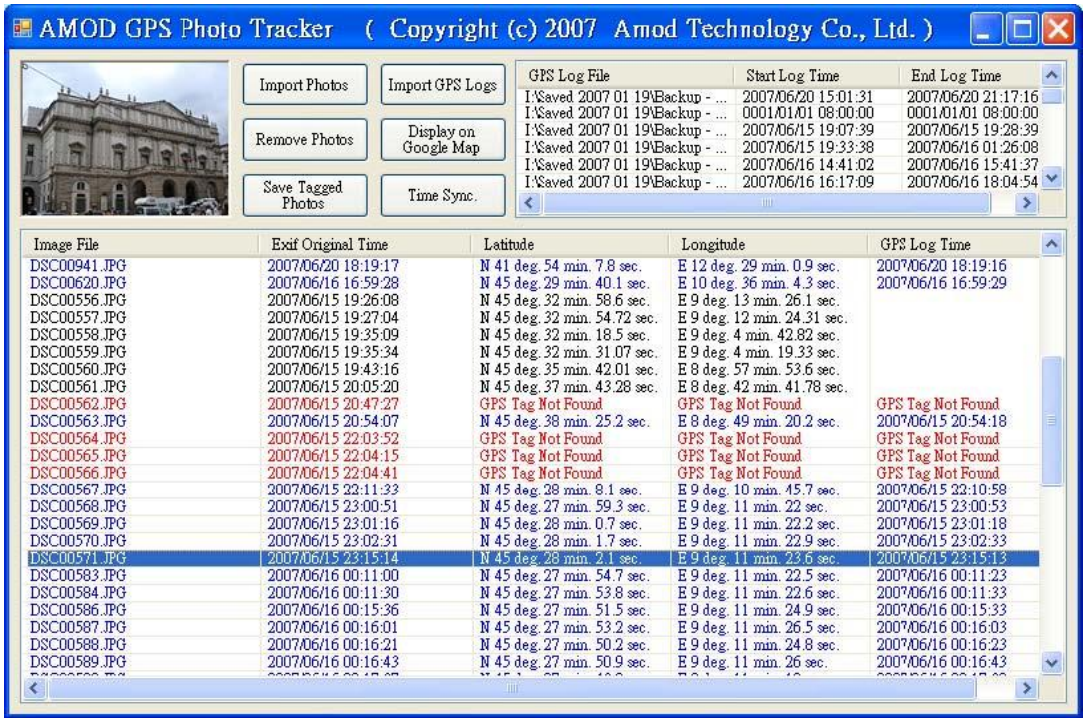


Import photos

Go to the directory where DSC photos are stored. Then select photos to be tagged – multiple picture files can be selected, for import.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Import Photos
Import GPS Logs
Remove Photos
Display on Google Map
Save Tagged Photos
Time Sync.
GPS Log File
Start Log Time
End Log Time
Image File
Exif Original Time
Latitude
Longitude
GPS Log Time
DSC00941.JPG 2007/06/20 18:19:17 N 41 deg. 54 min. 7.8 sec. E 12 deg. 29 min. 0.9 sec. 2007/06/20 18:19:16
DSC00620.JPG 2007/06/16 16:59:28 N 45 deg. 29 min. 40.1 sec. E 10 deg. 36 min. 4.3 sec. 2007/06/16 16:59:29
DSC00556.JPG 2007/06/15 19:26:08 N 45 deg. 32 min. 58.6 sec. E 9 deg. 13 min. 26.1 sec.
DSC00557.JPG 2007/06/15 19:27:04 N 45 deg. 32 min. 54.72 sec. E 9 deg. 12 min. 24.31 sec.
DSC00558.JPG 2007/06/15 19:35:09 N 45 deg. 32 min. 18.5 sec. E 9 deg. 4 min. 42.82 sec.
DSC00559.JPG 2007/06/15 19:35:34 N 45 deg. 32 min. 31.07 sec. E 9 deg. 4 min. 19.33 sec.
DSC00560.JPG 2007/06/15 19:43:16 N 45 deg. 35 min. 42.01 sec. E 8 deg. 57 min. 53.6 sec.
DSC00561.JPG 2007/06/15 20:05:20 N 45 deg. 37 min. 43.28 sec. E 8 deg. 42 min. 41.78 sec.
DSC00562.JPG 2007/06/15 20:47:27 GPS Tag Not Found GPS Tag Not Found GPS Tag Not Found
DSC00563.JPG 2007/06/15 20:54:07 N 45 deg. 38 min. 25.2 sec. E 8 deg. 49 min. 20.2 sec. 2007/06/15 20:54:18
DSC00564.JPG 2007/06/15 22:03:52 GPS Tag Not Found GPS Tag Not Found GPS Tag Not Found
DSC00565.JPG 2007/06/15 22:04:15 GPS Tag Not Found GPS Tag Not Found GPS Tag Not Found
DSC00566.JPG 2007/06/15 22:04:41 GPS Tag Not Found GPS Tag Not Found GPS Tag Not Found
DSC00567.JPG 2007/06/15 22:11:33 N 45 deg. 28 min. 8.1 sec. E 9 deg. 10 min. 45.7 sec. 2007/06/15 22:10:58
DSC00568.JPG 2007/06/15 23:00:51 N 45 deg. 27 min. 59.3 sec. E 9 deg. 11 min. 22 sec. 2007/06/15 23:00:53
DSC00569.JPG 2007/06/15 23:01:16 N 45 deg. 28 min. 0.7 sec. E 9 deg. 11 min. 22.2 sec. 2007/06/15 23:01:18
DSC00570.JPG 2007/06/15 23:02:31 N 45 deg. 28 min. 1.7 sec. E 9 deg. 11 min. 22.9 sec. 2007/06/15 23:02:33
DSC00571.JPG 2007/06/15 23:15:14 N 45 deg. 28 min. 2.1 sec. E 9 deg. 11 min. 23.6 sec. 2007/06/15 23:15:13
DSC00583.JPG 2007/06/16 00:11:00 N 45 deg. 27 min. 54.7 sec. E 9 deg. 11 min. 22.5 sec. 2007/06/16 00:11:23
DSC00584.JPG 2007/06/16 00:11:30 N 45 deg. 27 min. 53.8 sec. E 9 deg. 11 min. 22.6 sec. 2007/06/16 00:11:33
DSC00586.JPG 2007/06/16 00:15:36 N 45 deg. 27 min. 51.5 sec. E 9 deg. 11 min. 24.9 sec. 2007/06/16 00:15:33
DSC00587.JPG 2007/06/16 00:16:01 N 45 deg. 27 min. 53.2 sec. E 9 deg. 11 min. 26.5 sec. 2007/06/16 00:16:03
DSC00588.JPG 2007/06/16 00:16:21 N 45 deg. 27 min. 50.2 sec. E 9 deg. 11 min. 24.8 sec. 2007/06/16 00:16:23
DSC00589.JPG 2007/06/16 00:16:43 N 45 deg. 27 min. 50.9 sec. E 9 deg. 11 min. 26 sec. 2007/06/16 00:16:43

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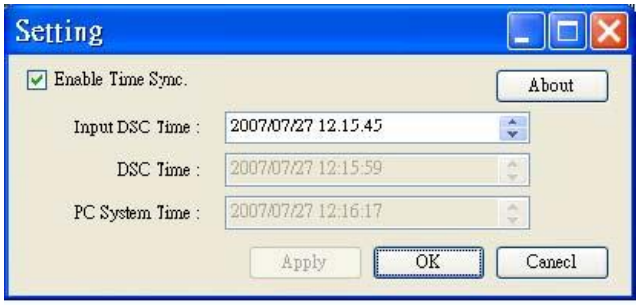
The Photo Tracker will automatically tag the selected photos with the GPS location information. When complete, the photos will be shown in ***blue*** color. Those photos unable to be tagged will be shown in ***red*** color. Those already have GPS tags will be shown in ***black*** color. Those photos that have been tagged by depressing the "Mark" button will be shown in ***green*** color. Please refer to the description about the Position Mark function in page 3 of this User Manual.

Time Sync

Because the position tagging is done by cross relating the GPS time (UTC standard time) and DSC time (DSC's internal time), to find out accurately how much off is the DSC time is critical to the position accuracy during tagging. To offset the difference between GPS time, which is accurate, and the DSC internal time, which may not be accurate and could be off, a Time Sync function is implemented. This offset operation can reduce inaccuracy in the geo-location tagging process. However, Time Sync is an *optional* function – if the DSC time is accurate enough that the geo-location error is not significant or critical to you, you can skip the Time Sync step altogether. Before you enter the Time Sync operation, please check and adjust the time of your computer. This is necessary because the local computer time is used as the standard time to derive the offset (the difference) between the DSC time (stored in the photo image file) and the standard time. Please make sure your local time zone and time are both correct and accurate. You can conduct the Time Sync operation by clicking the Time Sync icon to bring up the following window and check the "Enable Time Sync." button to begin the operation.



The **Input DSC Time** field is for you to enter the time that will be used to sync with the DSC time. There are two steps involved – **adjust time zone** and **adjust actual time**.

Adjust time zone

The pictures may be taken at places that belong to a different time zone. For these pictures, please find the time difference (in hours) and adjust the information in the **Input DSC Time** field. Please note this change may also involve the adjustment of the date information in the **Input DSC Time** field.

Adjust actual time

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When the DSC time is off slightly, only the seconds and/or minutes fields need to be adjusted. Enter a time that is slightly ahead than the displayed DSC Time. When the DSC Time (which is constantly counting up) reaches this pre-selected time, click Apply so that the DSC Time field is updated (synchronized) to the DSC's system time. When this is done, just click OK to continue.
With these adjustments in the Time Sync operation, the Photo Tracker Software can derive the difference between DSC Time and PC System Time. This time difference is then used to offset any timing error that could exist between the DSC and GPS time.

When traveling to a different time zone, if your DSC time is adjusted to the local time, then the adjustment needed to compensate the time difference becomes a tedious and complicated task – you need to record each time zone. When tagging photos, they and the log files must be correlated into groups first. For each group, adjust the time separately using Time Sync. If this process is too tedious for you, when you go on a trip that crosses several time zones, please do not adjust your DSC time at all to avoid the complication/confusion this may cause.

Display Pictures on Google Map

The GPS tagged pictures can be shown on Google Map by clicking the "**Show on Google Map**" button.

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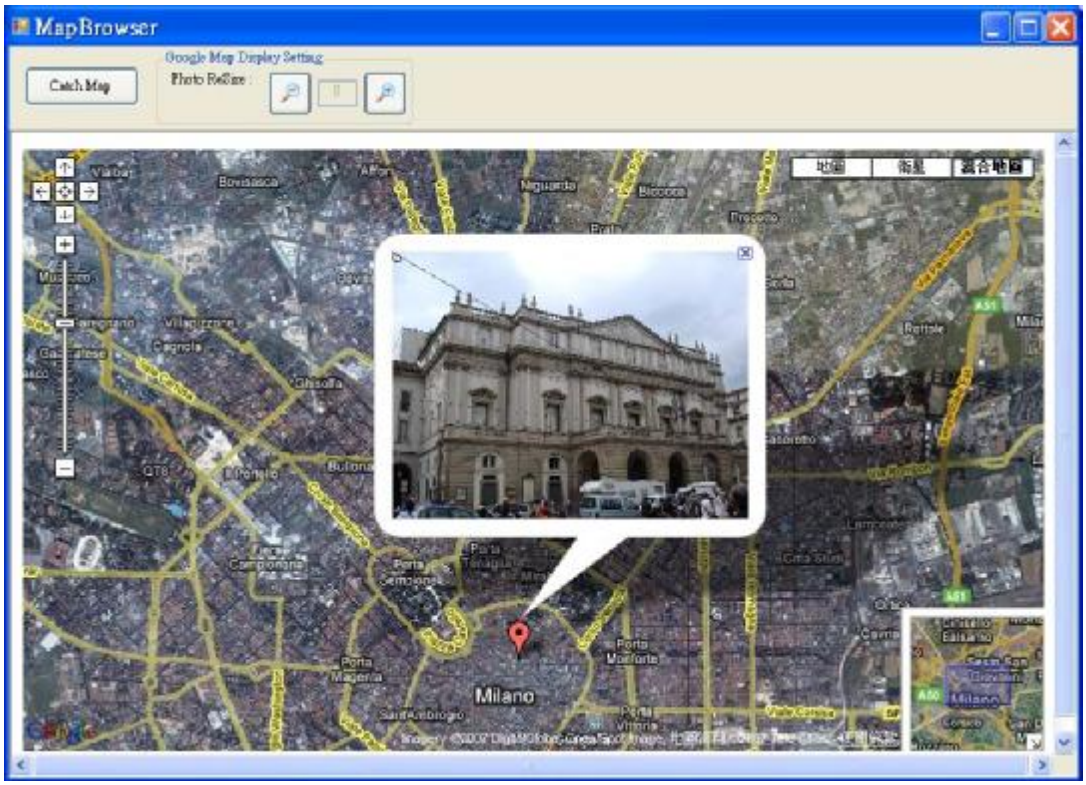
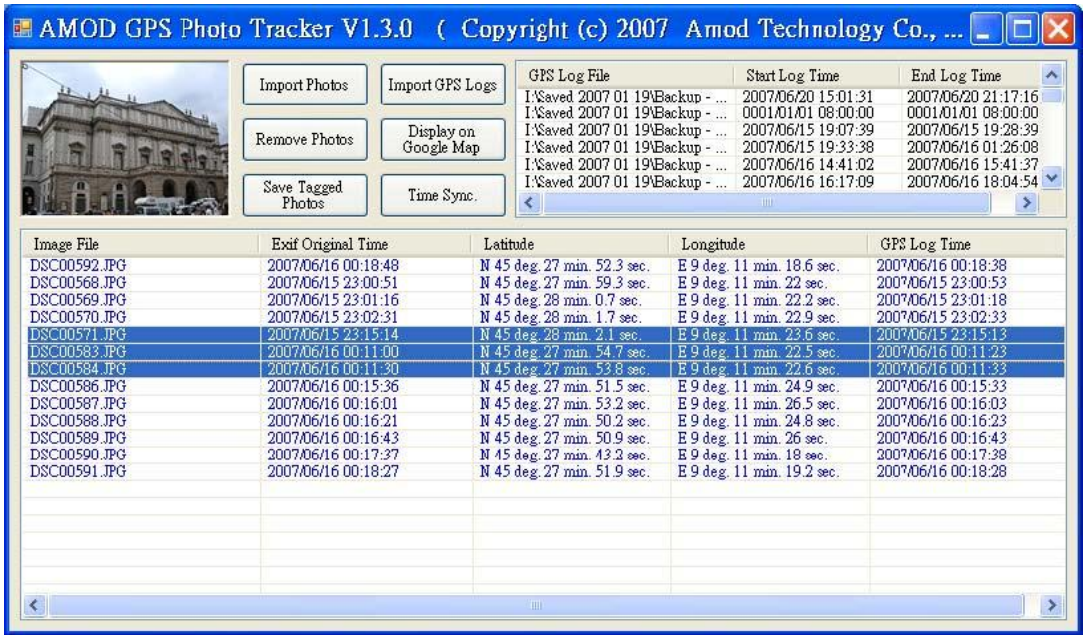


Select and Display Multiple Photo Pictures

Multiple pictures can be displayed on the Google Map simultaneously too. This can be done if they are selected simultaneously by clicking photo files while holding the Shift key.



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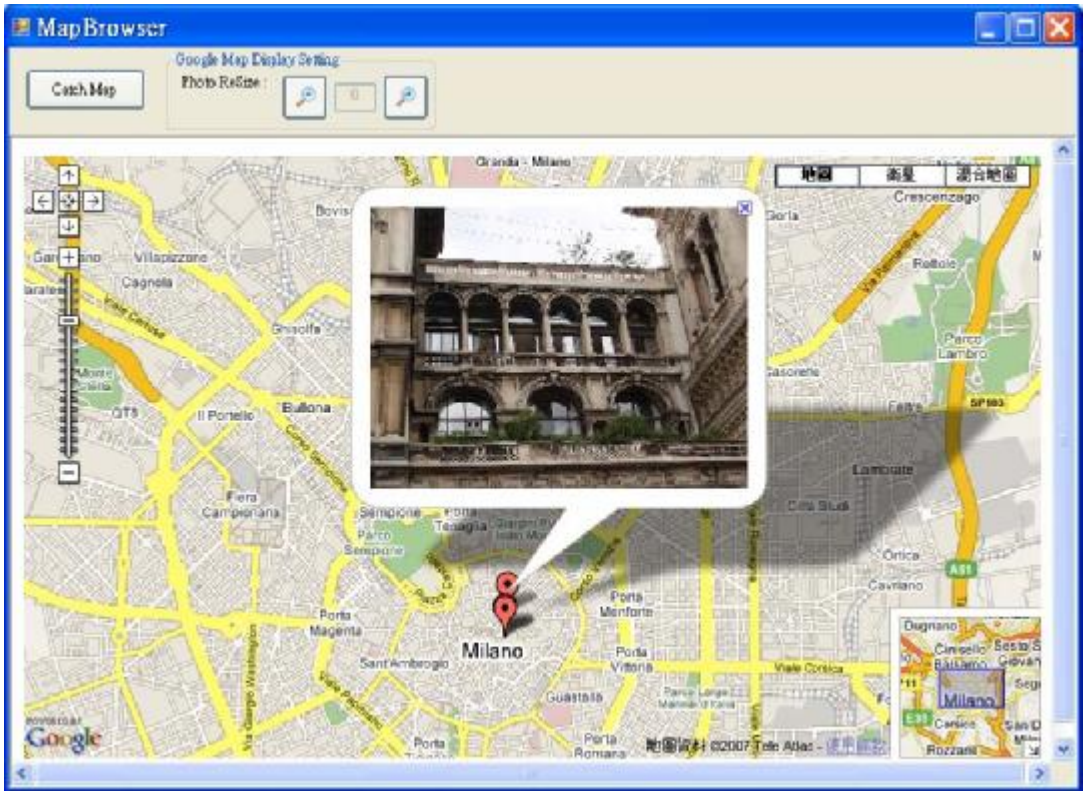
Then click Display on Google Map button, these pictures will be displayed on Google Map simultaneously. By clicking the push pin, each photo can selected to show on Google Map.



Resize and Save Displayed Photos with Google Map

To meet individual's needs, AGL3080 Photo Tracker Software provides five different sizes (relative to the Google Map as background) of the photo pictures for user to select. The photo comes up with the default size on the display window. When clicking the magnifying button or shrink button, more sizes

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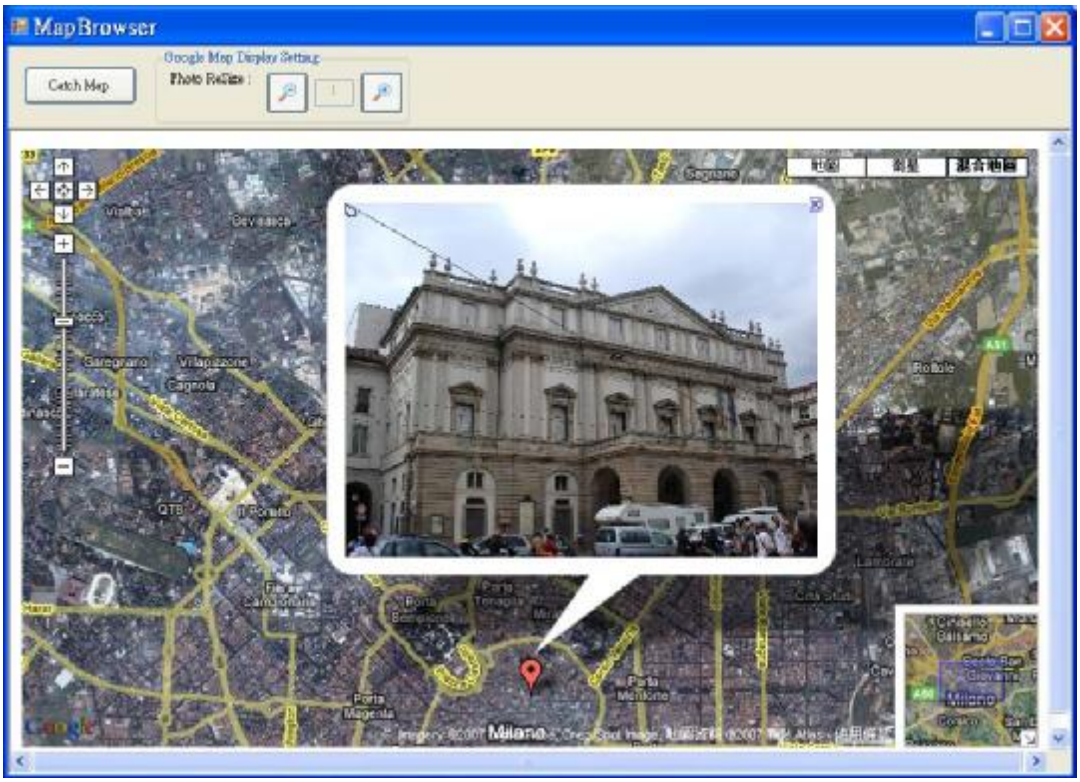
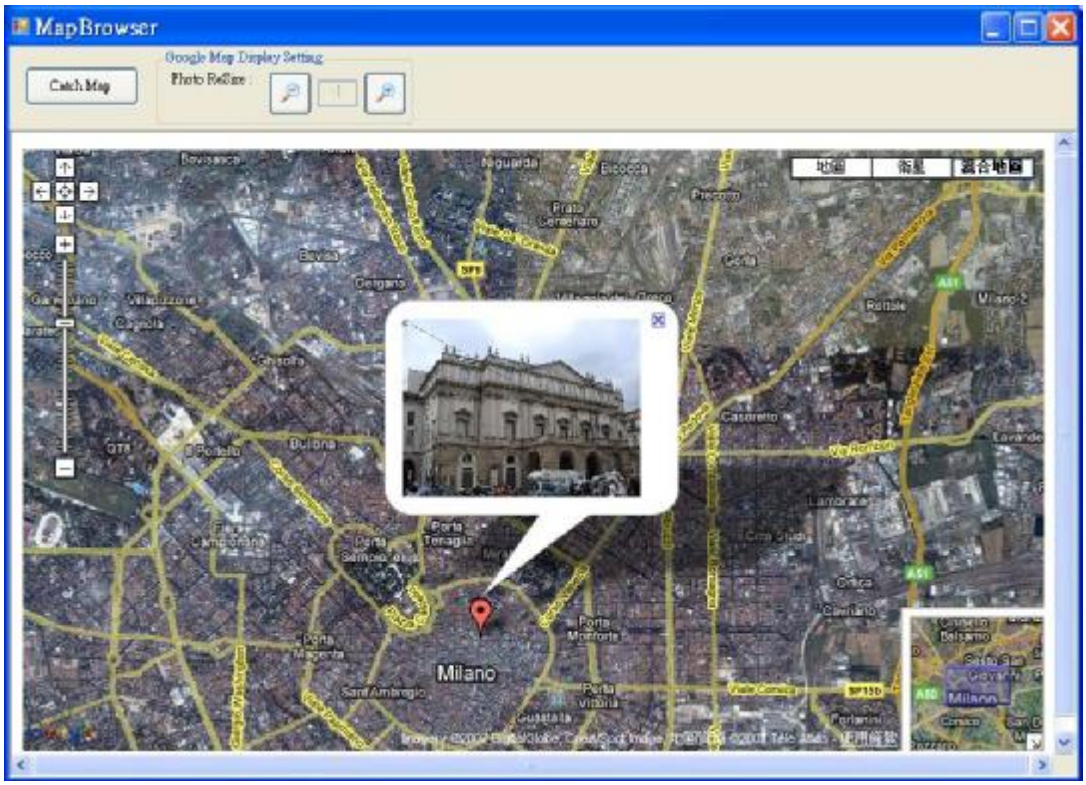


(Enlarged)



(Shrinked)

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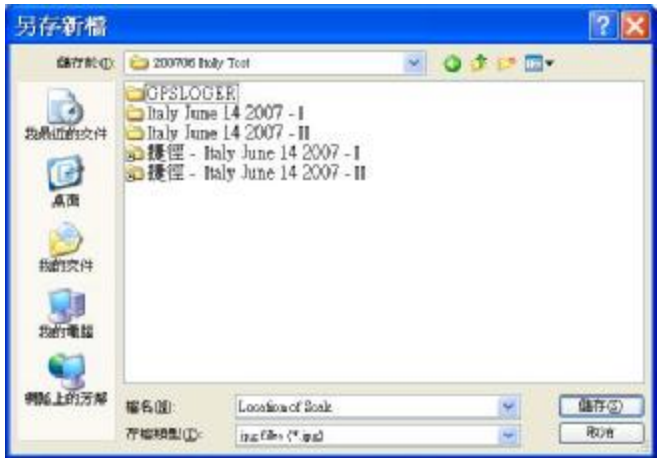
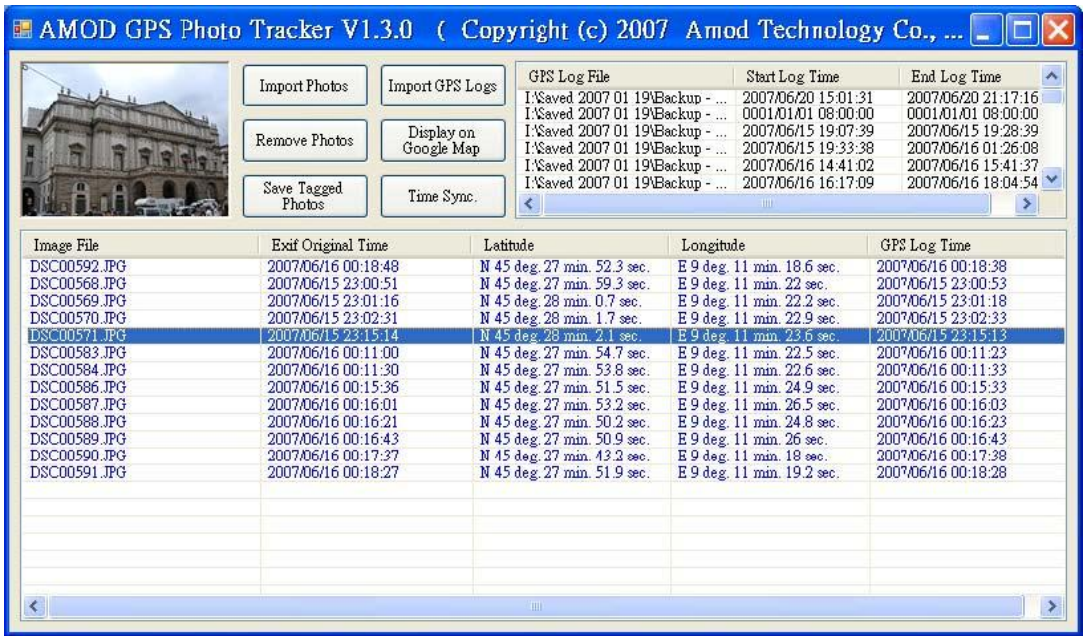
Click the Catch Map Button, the display (picture with Google Map as background) can be saved for



Finally click the **Save Tagged Photos** button on the main menu of the Photo Tracker Software, the geo-tag will be saved within the photo picture file for future viewing or sharing.



When all are done, exit the ***AMOD Photo Tracker Software*** by right-clicking the top frame and select ***EXIT***.

[NOTE: We are not responsible for any alteration or deletion of pictures during the operation. Please always save a copy of the picture file as back up if needed.]

More Tools and Applications JetPhoto In addition to the supplied AMOD GPS Photo Tracker, AGL3080 can also be used with **JetPhoto**, which is a photo organizing and management tool and service provided by Atomix Technologies Limited (©2004 – 2007 Atomix

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Technologies.) **JetPhoto** can be used either with Microsoft's Windows operating system or Apple's MAC operating system. **JetPhoto** is included in the AGL3080 CD-ROM as part of the photo organizing and management software tools package. They can also be downloaded from http://www.jetphotosoft.com/web/home/.

Other Tools

Because the logged GPS data is in the standard NMEA0183 format and saved as text files, with the true generic USB 2.0 interface, AGL3080 is very simple and easy to use directly with many GPS software tools such as **GPSVisualizer** (©2007 Adam Schneider, Schneider@pobox.com). The GPS tracks logged by AGL3080 can then be converted into various formats such as GPX, KML, etc. This makes AGL3080 a very powerful and handy tool, not limited only for GPS tagging of photos.

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Appendix - Status LED

General Operation

There are three LED's on the device representing Battery Power (amber), GPS Status (green), and Storage Full (red) respectively. These LED's can be *Off*, *Blinking*, or *Constant On*, representing the status of the device.

Status	Color	State	Status Represented
Battery Power	*Amber*	*Off*	Normal operation
		Blinking	The battery power level is low, but the device can still function normally. but GPS may take longer time to get a position fix
		Constant On	The battery power level is extremely low, the GPS and data log functions are turned Replace battery immediately
GPS Status	*Green*	*Off*	Device is turned off
		Blinking	The device is tracking GPS satellites and logging GPS data
		Constant On	The device is in the process of acquiring satellites, GPS data not yet available
Storage Full	*Red*	*Off*	Storage space available
		Constant On	The device is out of storage space GPS data can not be logged Turn off the device and download the logged data file(s). Perform a DISC RESET operation to clean up the disc storage during Power ON.

Status LED in Set UP Mode

	LED Status	Output Format	Minimum Records	Minimum Operation Hours
Mode 1	Memory Full Led ON	GGA/GSA/RMC/VTG->1 sec GSV -> 5 sec	260,000	72 hours
Mode 2	Memory Full Led Flash	Only RMC->1 sec	1,040,000	288 hours
Mode 3	GPS Led ON	GGA/GSA/RMC/VTG->5 sec	260,000	360 hours
Mode 4	GPS Led Flash	Only RMC->5 sec	1,040,000	1440 hours
Mode 5	Battery Low Led ON	GGA/GSA/RMC/VTG->10 sec	260,000	720 hours
Mode 6	Battery Low Led Flash	Only RMC->10 sec	1,040,000	2880 hours

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Appendix – Preparations

Attach the Hanging Strip

1. 1. Un-fasten the strip
2. 2. Inset the hanging strip through the side handle of the device
3. 3. Fasten the strip and the device can be carried conveniently

Install Battery

1. Open the bottom cover to reveal battery compartment

Please note the orientation of each battery is clearly marked.

Incorrect battery placement may damage the device.

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1. 2. Insert Three (3) AAA Size Batteries
2. 3. Close the Battery Cover

Either regular or rechargeable batteries can be used.

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Trouble Shooting

GPS Status LED stays on / Poor GPS signal reception

Sometimes the reception of GPS satellite signal may be poor or blocked. This may happen when inside a building or tunnel, or due to weather condition or the GPS signal is blocked by objects such as buildings, trees, metal shields, etc. When this happens, the GPS Status LED will stay on and no GPS data will be logged. Please check and adjust the orientation and position of the AGL3080 to ensure no blockage and facing open sky. When the AGL3080 can receive GPS signal, the GPS Status LED will resume blinking. If the AGL3080 was used previously at a location far away, perform a GPS Reset operation to force a "Cold Start" of the GPS. The AGL3080 should be back to normal soon and the GPS Status LED will begin blinking again.

Missing or lost GPS log file

Battery can not be removed while the AGL3080 is still turned on and functioning. If this happened, the power to the device will be out. This power outage will cause the logged GPS data not being properly saved and thus permanently lost. Please exercise caution not to open the battery compartment to remove or change the battery while the AGL3080 is still on and functioning to avoid losing logged GPS data.

Battery operating time too short

Batteries vary a lot in quality, affecting the AGL3080's operating time. Please make sure to use quality batteries. We recommend 900 mAh batteries. When using the AGL3080 in a cold environment, please use NiH batteries.

Can not turn on the AGL3080

The battery contact may be poor or the battery power level may be too low. This may happen when the AGL3080 was not used for a long time. The leakage in batteries drained the battery power. When not using the AGL3080, please take the batteries out and store them properly to maintain the battery's power level. If the batteries are too old, replace with new ones.

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Hardware Specification

GPS	
Chipset	SiRF Star III high performance low power GPS receiver IC
Frequency	L1 1,575.42 MHz
Channels	20 parallel tracking channels
GPS Tracking Sensitivity	- 158 dBm
LED Indicators	
Power On/Off	Amber
GPS Fix	Green
Memory Full	Red
General	
Storage Capacity	128 Mbytes (1 Gbit NAND flash memory)
Interface	USB 2.0 full speed
Battery	3 AAA standard size batteries
Operating Time	> 15 hours continuous operation (3 AAA 900 mAh rechargeable battery @ 25℃)
Operating Temperature	- 20 ~ 50 ℃
Storage Temperature	- 30 ~ 80 ℃
Humidity	95 % non-condensing
Dimension	90 mm × 45 mm × 23 mm
Weight	~ 50 g (not including battery)

Package Contents

Each box contains the following items:

AGL3080 Hanging Strip & USB Cable

CD-ROM (Manual, Software Tools)

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Certifications

CE, FCC, VCCI certified, RoHS Compliant

FCC Notices This Device complies with Part 15 of the FCC rules; operation is subject to the following two conditions.

.(1) This device may not cause harmful interference and,

.(2) This device must accept any interference received.

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